



Salt River Pima-Maricopa Indian Community Water Quality Program

Environmental Protection & Natural Resources



Gaining "S.T.E.A.M." in Indian Country

Gina Leverette

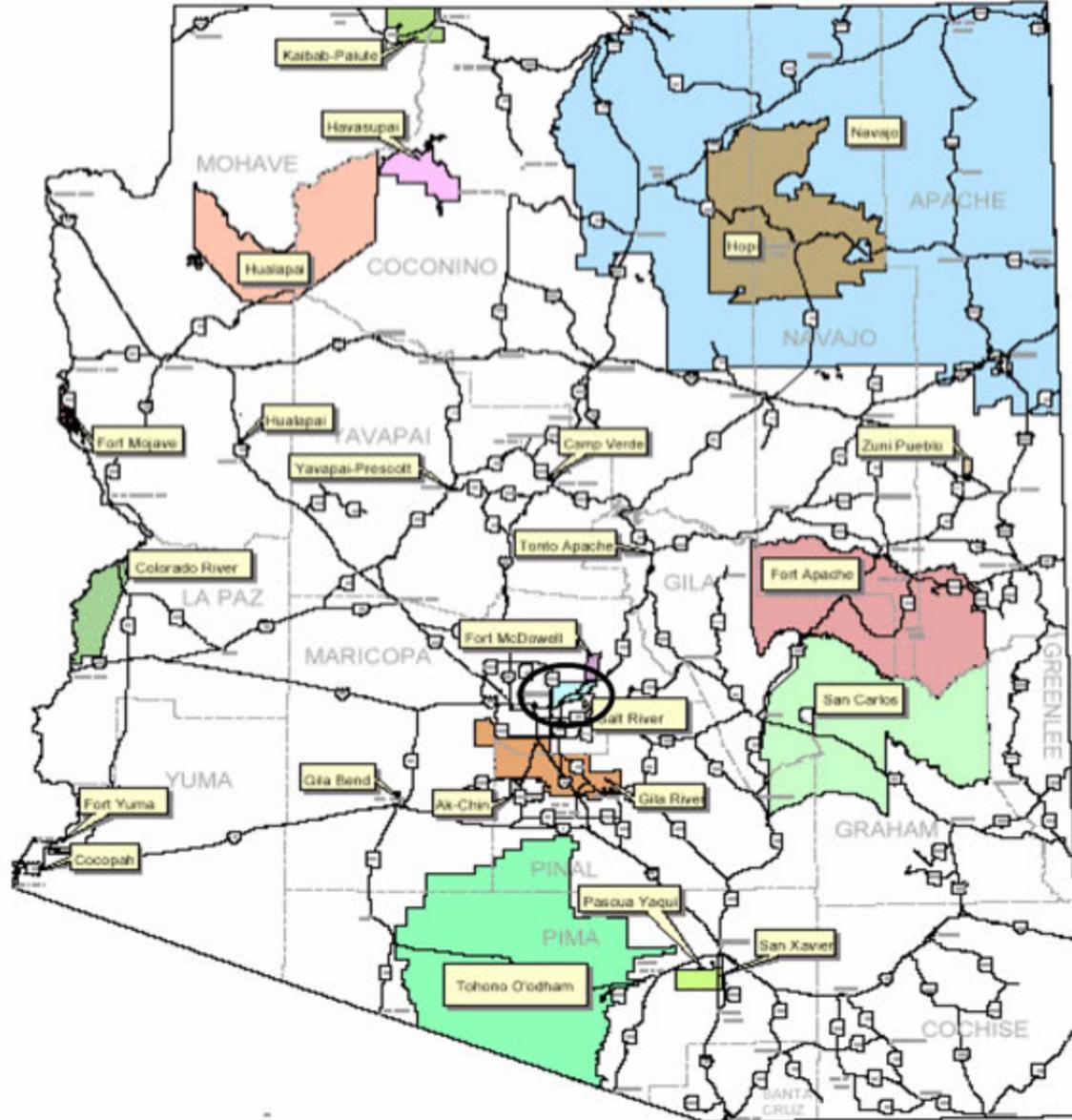
Salt River Pima-Maricopa Indian Community



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Environmental Protection & Natural Resources

American Indian Reservations





Salt River Pima-Maricopa Indian Community Water Quality Program



The Water Quality Program (WQP) is responsible for protecting the Community's surface and groundwater resources to ensure the safety and protection of human health and the environment.



So....what is S.T.E.A.M.?

S = SCIENCE

T = TECHNOLOGY

E = ENGINEERING

A = ARTS

M = MATHEMATICS





Getting Started with S.T.E.A.M.

- Building relationships/making connections
- Reassurance
 - financial
 - standards



State Standards

SCIENCE STANDARD ARTICULATED BY GRADE LEVEL GRADE 3

Strand 3: Science in Personal and Social Perspectives

Science in Personal and Social Perspectives emphasizes developing the ability to design a solution to a problem, to understand the relationship between science and technology, and the ways people are involved in both. Students understand the impact of science and technology on human activity and the environment. This strand affords students the opportunity to understand their place in the world – as living creatures, consumers, decision makers, problem solvers, managers, and planners.

Concept 1: Changes in Environments

Describe the interactions between human populations, natural hazards, and the environment.

- PO 1. Describe the major factors that could impact a human population (e.g., famine, drought, disease, improved transportation, medical breakthroughs).
- PO 2. Describe the beneficial and harmful impacts of natural events and human activities on the environment (e.g., forest fires, flooding, pesticides).

Concept 2: Science and Technology in Society

Understand the impact of technology.

- PO 1. Identify ways that people use tools and techniques to solve problems.
- PO 2. Describe the development of different technologies (e.g., communication, entertainment, transportation, medicine) in response to resources, needs, and values.
- PO 3. Design and construct a technological solution to a common problem or need using common materials.



Planning

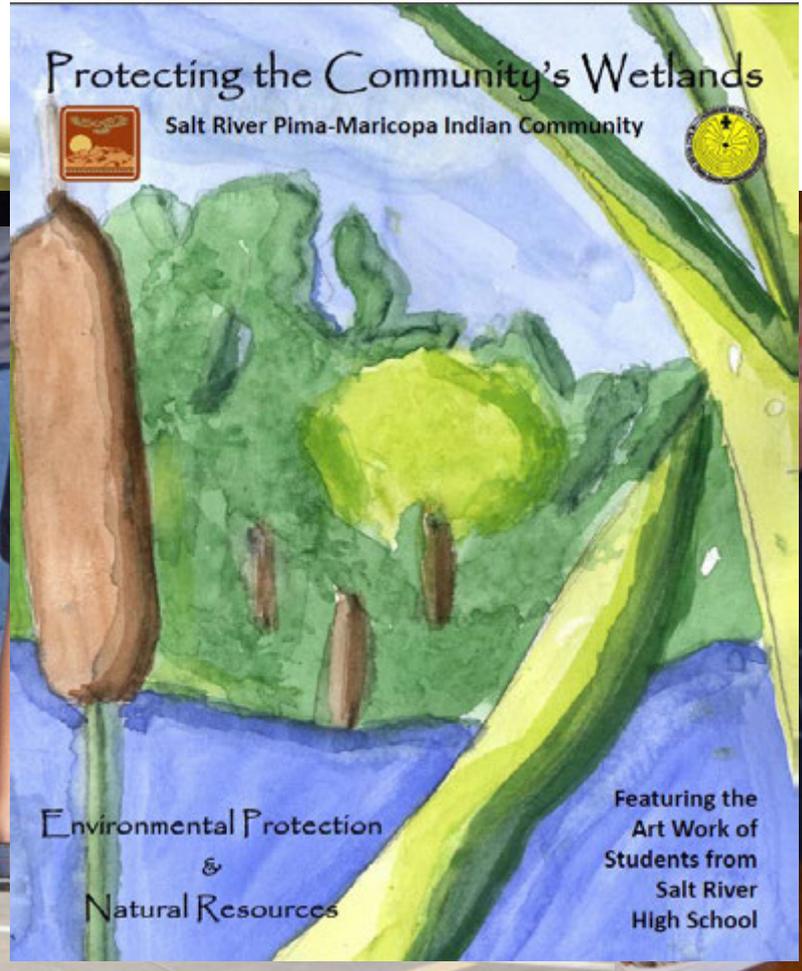
- Environmental team-how and where to facilitate
- Working w/teachers, coordinators-standards
- Working w/other Departments-ensure education goals are met
- S.T.E.A.M.-based environmental education



Into the Classroom

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- Teacher in-service
- Exper
- Solar
- Outre
- Caree





Build It...They Will Come

- Wetlands
- Education Center



Wetland Activities

- Culturally significant plants
- Rock painting

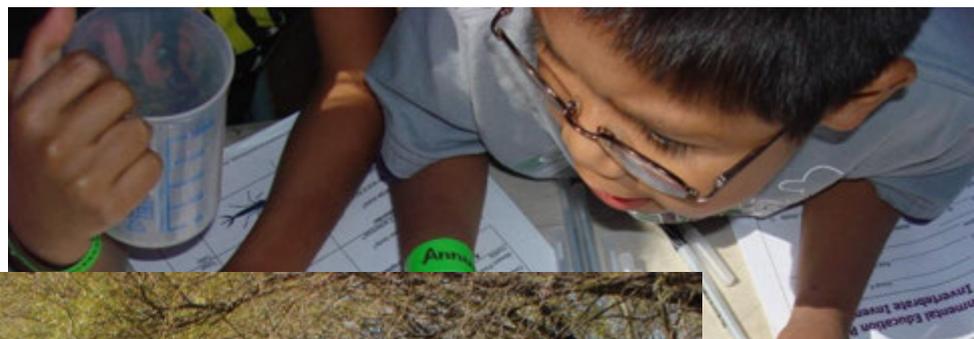




Salt River Pima-Maricopa Indian Community Water Quality Program

Other-Rivers

- Macroinvertebrates
- Hiking
- Crayfish s
- Plants & s





Materials

- LaMotte

<http://www.lamotte.com/en/environmental-education-resources/handbooks>

- Lesson plans online

<http://www.scholastic.com/teachers/lesson-plans/free-lesson-plans>

- Project WET

<http://www.projectwet.org/>

- EPA

<https://cfpub.epa.gov/npstbx/index.html>

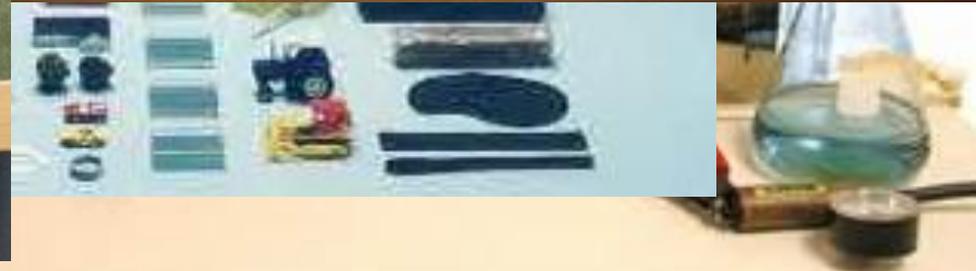
- Create your own



Outreach Tools

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- Solar car kits
- Enviroscape
- La M...





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SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY

Home · Community · Government · History & Culture · Economic Development · Enterprises · Employment

EPNR

- Air Quality
- Water Quality**
- Land Use Compliance
- Waste Management
- Range Management
- Clean and Green Campaign
- Earth Day
- EPNR in the News
- Administration
- Documents
- Contact

Water Quality Program

What We Do

The Water Quality Program (WQP) has overall responsibility for ensuring the waters within the Community are in compliance with water quality standards, which were updated for the SRPMC during this year. The program enforces SRPMC and federal regulations to protect water quality.

The WQP collects and analyzes monitoring data to ensure the quality and safety of surface and groundwater. This data is used to create annual reports, which inform the Community of the surface and groundwater quality. Additionally, the WQP performs educational outreach to other departments, Community schools, and Community members to increase awareness of the importance of environmental stewardship and the Community's watershed. In addition to protecting the Community's surface and groundwater, the WQP manages the Community's wetlands to mitigate nonpoint source issues.

Document development plays an integral part of ensuring the water quality is improved, protected, and maintained. These documents may also provide a tool to share data with the Community and federal government. The WQP develops and updates documents to reflect current federal standards and guidelines as well as consideration of any SRPMC cultural practices. Most documents are revised every 2-5 years, or as needed.

Hotline Phone
480-362-7500
[Send an e-mail](#)

Environmental Education and Outreach Program

Who We Are

The WQP is diligent in educating the Community about its program responsibilities, nonpoint source pollution, and its impact. Because the protection of the Community's water resources must be a joint effort, the program believes that changes in awareness and understanding of the water quality issues are important to maintaining and improving water quality.

Outreach Program – Request Form

Fields marked with a "*" are required

* Last Name: * First Name:

* Phone:

Email Address:

Organization:

Number of People in Group:

Tour of Verde and Salt River
 Tour of Wetlands
 General Presentation
 Other

Additional Notes:

- Water Quality
- Land Use Compliance
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Funding Sources

- EPA Grants
 - CWA 319, CWA 106, CAA 105, GAP, Brownfields, Pesticides, Wetland Development
- BIA
- Tribal Government
- Schools





Questions?



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